

DELAWARE

SUMMARY OF FY 1997 ENVIRONMENTAL PERFORMANCE PARTNERSHIP AGREEMENT

STRATEGIC PRIORITIES

The Agreement is structured to reflect DNREC's strategic priorities, which are:

- ◆ **Protecting public health and safety.** DNREC considers the protection of public health its most fundamental goal. This goal includes improving air quality, protecting against consumption of and exposure to harmful or toxic substances, maintaining emergency preparedness, and conducting other public health-related activities.
- ◆ **Protecting and improving water quality.** DNREC views ground and surface water quality degradation as the most prevalent problem in Delaware. Degraded water quality impacts public health as well as fish and wildlife habitats and can hinder future economic prosperity in Delaware.
- ◆ **Protecting and improving fish and wildlife resources.** Fish and wildlife are affected by a variety of environmental stresses, such as contaminated surface water, air pollution, and changing land use patterns. DNREC's ultimate objective is to protect habitats via increased land management and acquisition activities.
- ◆ **Protecting lands.** Delaware possesses many open spaces and natural areas, such as forest land, meadows, wetlands, and beaches. In an effort to protect these valuable resources, the State has targeted more than 200,000 acres for protection and/or acquisition.
- ◆ **Enhancing recreational opportunities.** Enhancing recreational opportunities in Delaware involves maintaining and improving the integrity of parks, historic sites, recreation areas, greenways, trails, and waterways.

These various areas do not stand alone; they are interdependent. For example, surface water quality affects the survival of fish and wildlife.

SPECIFIC OBJECTIVES FOR ACHIEVING KEY GOALS

The five tables below are organized by DNREC's strategic priorities. Each table contains the specific objectives established by DNREC to achieve its various goals.

Protecting Public Health & Safety

Key Goal	Objectives
Attainment of the Ozone Air Quality Standard.	<ul style="list-style-type: none"> · Attain the ozone standard by 2005 in New Castle and Kent. · Achieve 100 percent compliance with regulations. · Information on compliance, and permitting status is readily available. · Reduce emissions with a permitting program that fosters least-cost compliance flexibility and is responsive to changing market conditions. · Reduce oxides of nitrogen (NOx) emissions by 24.0 tons/year by 1999 via Ozone Transport Commission (OTC) NOx MOU
Reducing air toxics.	<ul style="list-style-type: none"> · Reduced emissions of benzene in WWTP by 95 percent, chrome in cooling towers by nearly 100 percent, dry cleaning and chrome electroplating significantly by 1998. · Reduce TRI emissions by 30 percent by 2000 from 1995 levels. · A Hazardous Chemical Inventory for 1400 facilities and a Toxic Release Inventory (TRI) for 75 facilities. · Reduce toxic impact from new sources by assuring impact is below the TLV/100 value, the accepted threshold evaluation process. · Achieve 100 percent compliance with regulations. · Information on compliance, permitting status, and asbestos is readily available.
Surveillance of air & attainment of all air quality standards.	<ul style="list-style-type: none"> · No exceedences of the air quality standards for particulate matter, sulfur dioxide, carbon monoxide, and nitrogen dioxide. · Maintain the ozone air quality standard in Sussex. · Achieve 100 percent compliance with regulations. · Information on compliance, permitting status, and ambient air quality is readily available.
Emergency preparedness & prevention.	<ul style="list-style-type: none"> · Avoid catastrophic incidents at facilities producing or using extremely hazardous substances.

DELAWARE (cont.)

Protecting Public Health & Safety	
Key Goal	Objectives
Protection of drinking water supplies.	<ul style="list-style-type: none"> · Achieve a 25 percent reduction in water use during drought. · Allocations provide equitable apportionment. · Achieve a safe sustainable yield. · Increase water conservation through citizen education. · Achieve and maintain state drinking water standards everywhere within delineated wellhead protection areas. · Avoid the installation of drinking water wells into groundwater with known contamination exceeding state drinking water standards.
Protection of shellfish consumers.	<ul style="list-style-type: none"> · Maintain Delaware's National Shellfish Sanitation Program (NSSP) conforming status. · Prevent a decrease in the total acreage of approved shellfish ground in Delaware. · Maintain incidences of shellfish borne diseases at no greater than current levels.
Safe water for swimmers.	<ul style="list-style-type: none"> · Expand coverage to beaches currently not monitored by at least 5 percent per year. · Maintain incidence of swimming related disease at no greater than current levels.
Controlling nuisance pest species.	<ul style="list-style-type: none"> · Eradicate 15 percent saltmarsh mosquito breeding habitat per year using Open Marsh Water Management techniques.
Clean up sites with releases of hazardous substances.	<ul style="list-style-type: none"> · Develop hazardous Substance Cleanup Program Capability and infrastructure and expertise needed to implement the requirements of the CERCLA Program. · 20 percent of the high priority sites currently on the inventory under the Delaware Hazardous Substance Cleanup Act (as of Sept. 1, 1995) will be remediated by FY 98. · Support federally managed clean up of hazardous waste sites.

DELAWARE (cont.)

Protecting Public Health & Safety

Key Goal	Objectives
Flood protection & water management.	<ul style="list-style-type: none">· Expand drainage, flood protection, and water management for an additional 6000 acres of agricultural and residential land.· Manage stormwater runoff from new development to the pre-development rate for the 2, 10, and (100 year in NCCo.)/24 hour rainfall event.

DELAWARE (cont.)

Goals and Objectives to Address Water Quality	
Key Goal	Objectives
Control point & non-point sources of pollution.	<ul style="list-style-type: none"> · By 1999, reduce NO_x emissions by 24.0 tons/day via the OTC NO_x MOU to reduce nitrogen loading to the bays. · Foster beneficial reuse of biosolids and wastewaters. · Eliminate surface water impairments from point sources. · By 2000 reduce loadings of pollutants by 10 percent to POTW's through voluntary pollution prevention means. · Reduce nutrient, sediment, bacteria, toxic substances, and stormwater volumes in Delaware's priority basins and watersheds (e.g. Christina Watershed/Piedmont Basin; Inland Bays Watershed/Basin; Nanticoke Watershed/Chesapeake Basin; and St. Jones River Watershed). · Prevent contamination from large septic systems and spray irrigation systems. · Eliminate 100 percent of all known failing septic systems.
Attainment of surface water quality standards.	<ul style="list-style-type: none"> · Increase in number of stream miles meeting designated uses. · Review every 3 years, criteria designed to protect uses and values. · Maintain surface water quality at October 1993 to September 1995 levels.
Reduce emissions that contribute to acid rain.	<ul style="list-style-type: none"> · Issue all Phase II Acid Rain permits including CEM requirements by 12/31/97 in order to reduce SO₂ emissions by 6,770 tons/year by 2000. · Timely and accurate facility-provided CEM data. · Participate in Acid Rain Division Audit Team.
Clean up sites with releases of hazardous substances.	<ul style="list-style-type: none"> · Develop hazardous Substance Cleanup Program Capability and infrastructure and expertise needed to implement the requirements of the CERCLA Program. · 20 percent of the high priority sites currently on the inventory under the Delaware Hazardous Substance Cleanup Act (as of Sept. 1, 1995) will be remediated by FY 98. · Support federally managed clean up of hazardous waste sites.

DELAWARE (cont.)

Goals and Objectives to Address Water Quality	
Key Goal	Objectives
Ensure adequate & sound management of hazardous wastes.	<ul style="list-style-type: none"> · Decrease generator/TSDf non-compliance with hazardous waste laws and regulations by having 50 percent compliance at time of first inspection. · Reduce quantity of wastes generated by 20 percent (over 1995 levels) by the year 2000.
Ensure sound solid waste management.	<ul style="list-style-type: none"> · Reduce the quantity of wastes being landfilled in Delaware through a process of increased landfill diversion achieved by reduced waste generation, wastestream reuse, recycling, and composting. · Maintain high quality groundwater and surface water beneath and in proximity to Delaware's Sanitary, Industrial, and Dry Waste landfills. · Maintain high quality air conditions in areas having close proximity to Delaware's Sanitary, Industrial, and Dry Waste landfills.
Prevent leaks from underground storage tank systems.	<ul style="list-style-type: none"> · Reduce the percentage of LUST sites impacting drinking water to 15 percent by 2005. · Achieve an 80 percent compliance rate for operating UST's by 2005.
Ground water protection.	<ul style="list-style-type: none"> · Remediate past releases of hazardous waste. · Minimize the potential for groundwater contamination. · Preservation of significant ecosystems where groundwater is hydrologically connected to surface water.
Preserve wetlands & subaqueous lands.	<ul style="list-style-type: none"> · Establish baseline freshwater wetlands loss rate and reduce the rate 10 percent by the year 2000. · Increase the percentage of shoreline that is protected from erosion by vegetation, rock or combination thereof. · Reduce potential adverse wetland impacts by 25 percent during planning and construction of new tax/public ditch organizations. · Incorporate innovative techniques for dredge material disposal into DNREC's State-wide habitat enhancement program.

DELAWARE (cont.)

Goals and Objectives to Address Water Quality	
Key Goal	Objectives
Flood protection & water management.	<ul style="list-style-type: none"> Expand drainage, flood protection, and water management for an additional 6000 acres of agricultural and residential land. Manage stormwater runoff from new development to the pre-development rate for the 2, 10, and (100 year in NCCo.)/24 hour rainfall event.
Implementation of a whole basin management approach.	<ul style="list-style-type: none"> Complete first full rotation of management cycle for all basins within the state by the year 2004. Improved management of the Delaware Estuary through implementation of Delaware Estuary CCMP and support of Partnership for the Delaware Estuary, Inc. Improved management of Inland Bays through implementation of Inland Bays CCMP.
Provide assistance to the community where possible.	<ul style="list-style-type: none"> Improve wastewater treatment/animal waste management capabilities by providing responsive/innovative water pollution control financing and technical assistance services.
Provide laboratory services for the physical, biological & chemical characterization of surface & groundwater quality.	<ul style="list-style-type: none"> Meet or exceed client expectations by obtaining an 85 percent positive response rate from client surveys and interviews. Reduce delivery times by 10 percent (2 days) relative to the volume of work. Reduce chemical usage/hazardous waste generation by 15 percent relative to the volume of work. Achieve exceptional results in all laboratory performance results. Create customer incentives to seek laboratory services by reducing test turnaround time and by improving the quality of work such that market demand rises to the extent that it saturates the Environmental Services Section workload capacity.

DELAWARE (cont.)

Goals and Objectives for Protecting Fish and Wildlife Resources	
Key Goals	Objectives
Protect wildlife and fisheries habitat.	<ul style="list-style-type: none"> · Increase the number of acres actively managed wildlife habitat on public lands by 5 percent.
Stabilize and/or increase wildlife population and fisheries stocks.	<ul style="list-style-type: none"> · Improve wildlife population by 5 percent annually. · Improve weakfish stocks in Delaware waters and range wide by 5 percent per year. · Increase quail numbers by 5 percent per year. · Complete management plans for marine life used commercially (blue crab, eels, and horseshoe crabs). · Reduce the deer herd to the point that minimizes their negative impacts on the upland habitat and the economy.
Improve public awareness about wildlife and fisheries resources.	<ul style="list-style-type: none"> · Prepare a draft for a special area management plan at Pea Patch Island.
Promote habitat restoration.	<ul style="list-style-type: none"> · Remediate 3 sites with PCB Contamination along Christina & Brandywine River.

Goals and Objectives for Protecting Lands	
Key Goals	Objectives
Protecting our coastal zone.	<ul style="list-style-type: none"> · Reduce long term annual loss of recreational and protective beach area from publicly accessible municipal beaches by 100 percent. · Protect critical natural areas from ill-advised development. · Educate the public on the importance of Delaware's Coastal Zone through the Reserve. · Implement Coastal Zone regulations by June 1, 1997.
Revitalizing brownfields.	<ul style="list-style-type: none"> · Clean up and make available for reuse four sites during FY 1997. · Characterize the environmental condition of brownfield areas. · Provide no further action determinations for property or support voluntary cleanup program activities at sites determined to be contaminated by hazardous substances.

DELAWARE (cont.)

Goals and Objectives for Protecting Lands	
Key Goals	Objectives
Maximizing & protecting open space.	<ul style="list-style-type: none"> · Protect 2,000 acres, meeting the criteria for the Land Protection Act during the next fiscal year.
Achieve sustainable development.	<ul style="list-style-type: none"> · Perform a comparison study of the locations, quality and quantity of natural resources with land use activities for the purpose of establishing a baseline for natural resource protection, conservation and conversion by June 30, 1998. · Assist in the development of an inventory of industrial property suitable for redevelopment by June 30, 1997. · Establish ratios to track population growth versus resource consumption and develop the basis for a sustainable development index by June 30, 1999. · Establish management policy for providing needed water and/or sewer to those 59 identified un-served communities that are not identified as growth areas. · Establish procedure to improve local government land-use planning and decision making capabilities.

Goals and Objectives for Enhancing Recreational Opportunities	
Key Goals	Objectives
Enhancing our state parks.	<ul style="list-style-type: none"> · Establish a transferable annual permit. · Have 40 percent of exhibits meet standards. · Increase the recreation facility unit days by 10 percent. · Complete the Statewide Comprehensive Outdoor Recreation Plan by 12/96. · Reduce the backlog of park facility and infrastructure projects by 5 percent, thus permitting staff to concentrate on more preventive maintenance. · Complete two park master plans in the next fiscal year.

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Goals and Objectives for Enhancing Recreational Opportunities	
Key Goals	Objectives
Enhancing safe boating.	<ul style="list-style-type: none">· Increase the removal of undesirable accumulated sediment by 5 percent from lakes, ponds harbors, marinas, and navigable waterways.· Reduce resource related accidents by 5 percent annually.· Strive for a fatality rate of 0, by increasing the number of hunter safety and boating safety students by 5 percent per year.